

# Grants Mining District 2<sup>nd</sup> Five-Year Plan

## Assess and Address Health and Environmental Impacts of Uranium Mining and Milling









- Objectives & Accomplishments from 2010 Five-Year Plan for Grants Mining District
- Objectives & Goals for 2015 Five-Year Plan for Grants Mining District





# Five-Year Plan Collaboration

- Plan Partners

- Federal

- R9, DOE, NRC, DOI/BLM, USDA/FS, ATSDR

- State

- NMEMNRD, NMED, DOH

- Tribal

- Pueblo of Laguna
    - Pueblo of Acoma

- Stakeholders

- Community Groups

- BVDA, MASE

- Residents

- Ranchers

- Villages of San Mateo, Milan, Grants

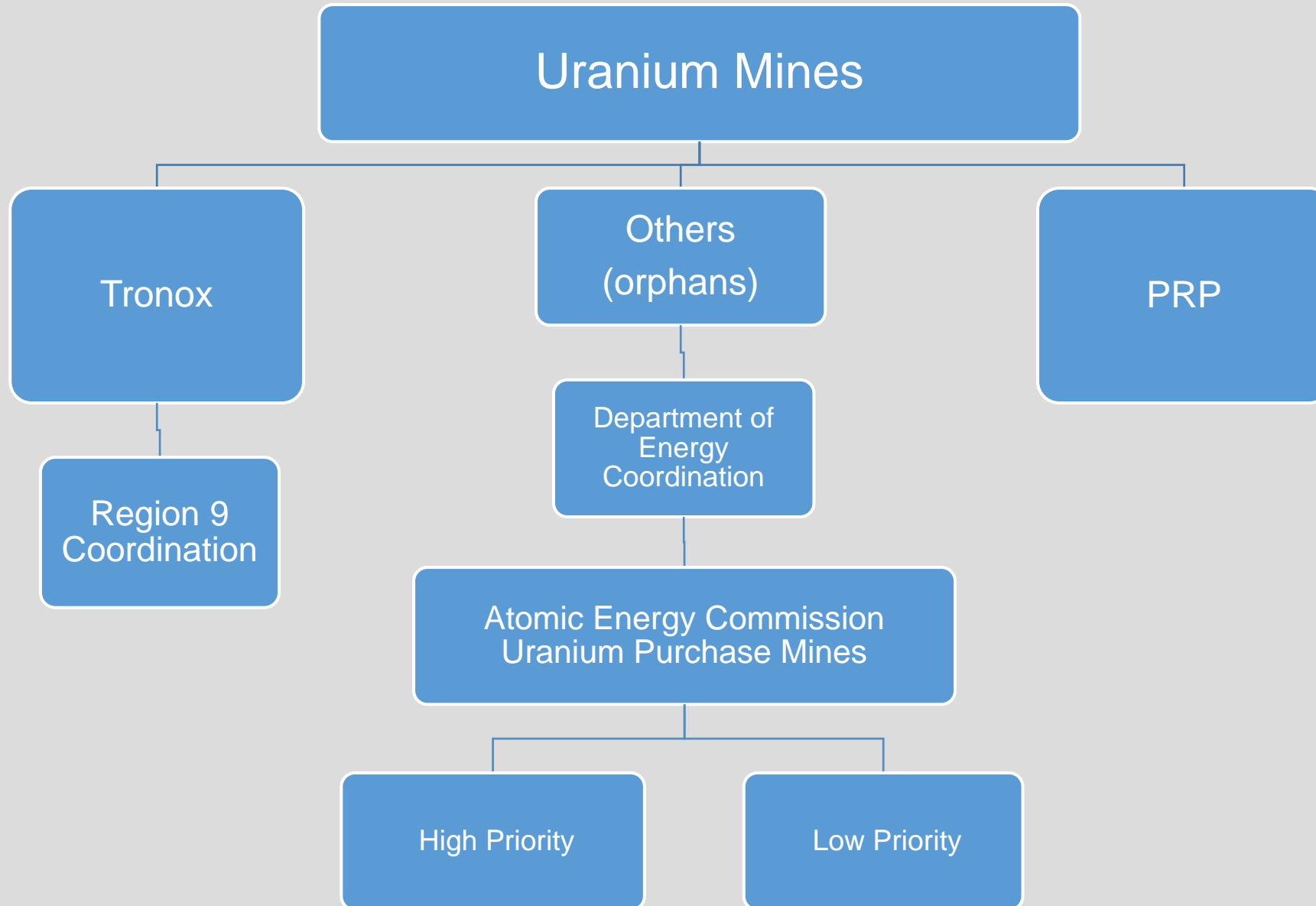




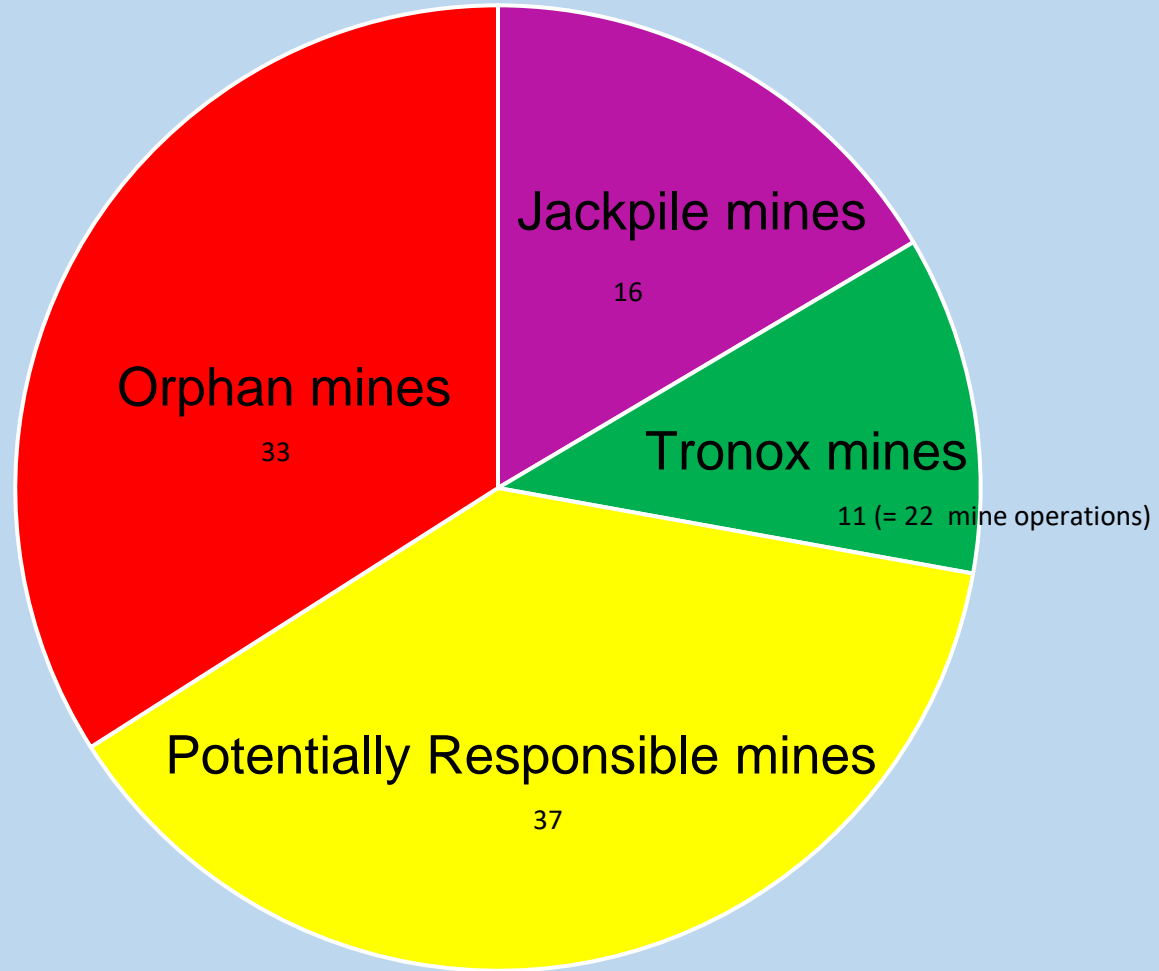
2010 – 2015 Plan		2015 – 2020 Plan
Goals	Accomplished	Goals
<u>Water Supply Sources</u> – Evaluate private well groundwater quality          – Evaluate public water supplies	– 32 private wells sampled (2009 & 2010) <ul style="list-style-type: none"> <li>23 wells exceed drinking water standards for at least one or more constituent</li> </ul> – 43 private wells sampled (2014 & 2015) <ul style="list-style-type: none"> <li>26 wells exceed drinking water standards for at least one or more constituent</li> </ul> – 3 Milan public water supply wells sampled <ul style="list-style-type: none"> <li>all wells meet drinking water standards</li> </ul>	– In 2015, issue EPA and NMED Groundwater Assessment Reports – In 2018, issue conceptual site model; is a tool to understand impacts of legacy uranium mining and milling on surface water and groundwater systems in San Mateo Creek basin
<u>Legacy Uranium Mines</u> – Compile existing information  – Assess mine impact areas  – Evaluate Jackpile for NPL	– 97 mines assessed <ul style="list-style-type: none"> <li>aerial gamma survey</li> <li>screening assessments</li> <li>10 investigations – Dysart #2, John Bully, Johnny M, Marquez, Mary #1, Sandstone, Sections 10,12,15,30</li> <li>1 cleanup – San Mateo Mine</li> </ul> – Jackpile on NPL December 2013	– In 2016, engage potential responsible parties – In 2016, BLM complete cleanup at 4 mines (Spencer and Barbara J Complex) – In 2016, USFS complete cleanup at 4 mines (Old La Jara, Taffy, Vallejo, Zia) – In 2016, EPA complete assessment on 2 mines and begin cleanup (Sections 35, 36); initiate assessment on 4 mines (Sections 10, 22, 24, 30W) – In 2017, complete assessment on 4 mines and begin cleanup (Sections 10, 22, 24, 30W); initiate assessment on 4 mines (Sections 17, 19, 30, 33) – In 2019, complete cleanup of 3 mines (Sections 35, 36, Johnny M) – In 2020, begin cleanup of 4 mines (Sections 10, 22, 24, 30W) – Conduct remedial investigation/feasibility study at Jackpile

2010 – 2015 Plan		2015 – 2020 Plan	
Goals	Accomplished	Goals	
<u>Former Uranium Mills</u> – Surveillance and maintenance  – Additional groundwater studies	– Inspected and maintained disposal cells (Phillips Mill, Bluewater Mill, L-Bar Mill)  – Demolished all remaining structures at the Rio Algom Mill site  – Installed 10 new monitoring wells at the Bluewater Mill; additional constituents/more frequently sampling of wells at the Bluewater and Rio Algom Mill sites <ul style="list-style-type: none"> <li>• better understanding of hydrology</li> </ul>	–	Maintain disposal cells (Phillips Mill, Bluewater Mill, L-Bar Mill) – In 2017, complete groundwater feasibility study for United Nuclear Corporation –Northeast Church Rock site and update the Record of Decision to account for current site conditions – In 2017, complete investigation at Homestake Mill site and issue final groundwater and tailings pile Record of Decision – 2020 NRC license termination at Rio Algom site; handoff to DOE for surveillance and maintenance – 2020 NRC begins handoff transition to DOE
<u>Residential Areas</u> – Identify contaminated structures – Identify contaminated properties	– Initial mission completed with 900 structures and properties assessed <ul style="list-style-type: none"> <li>• 772 found below action levels, owners informed</li> <li>• 128 found above action levels and cleaned up</li> </ul>		
<u>Public Health Surveillance</u> – Study uranium exposure	– Completed biometric study <ul style="list-style-type: none"> <li>• 6 to 9 times higher uranium in urine than national average</li> </ul>		
<u>Communication</u>	– 4 Community meetings held – 5-Year Plan updated twice	–	Clearly communicate ongoing and planned actions/activities – Provide information the community needs

# Grants Mining District



# Grants Mining District Mines - 97





# **Tronox Settlement Agreement**

## **“Designated Navajo Area Mines”**

- \$985 million of settlement to fund response at 49 abandoned uranium mines on and near the Navajo Nation
- **22 of the 49 mines located in EPA Region 6**
- **Estimating 10 years of work in Region 6**  
**with opportunities for technical, heavy haz**  
**waste construction and support services**  
**contractors or subcontractors**

Navajo

Non-Navajo

2 mines

3 mines

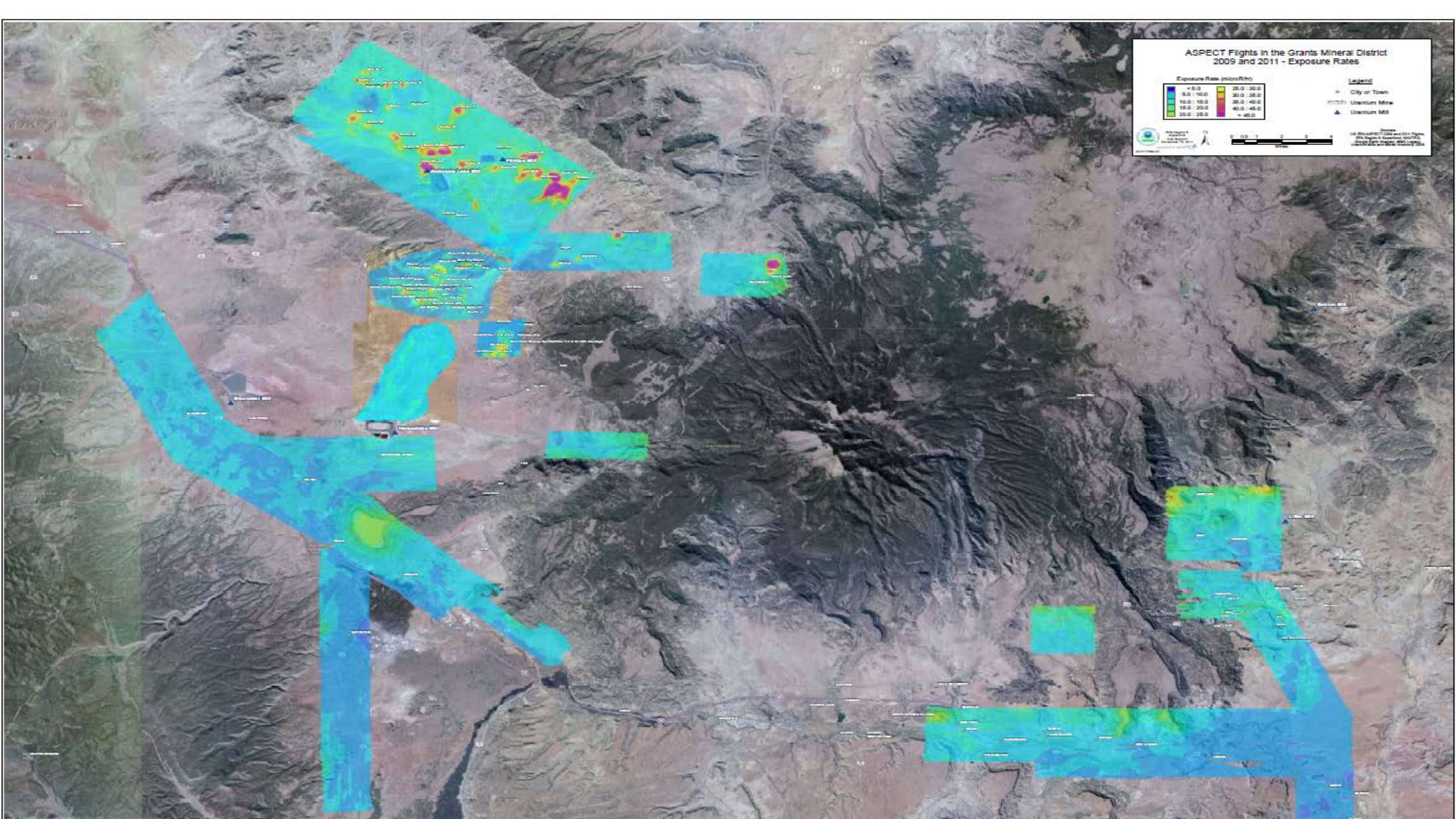
4 mines

4 mines

2 mines

Yellow pushpin = Tronox Mines







# Goals for Communication/Coordination

- Hold community meetings, as needed
- Implement education plan
- Maintain and update website annually
- Maintain FO-OC and Grants Command Post
- Make available TASC and TAG, as needed
- Annual updates to CIP





# Orphan Mines

